

**Notice of Allowability**

Application No.

10/726,225

Examiner

Zia R. Hashmi

Applicant(s)

HENSON ET AL.

Art Unit

2881

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/17/2006.
2. ☒ The allowed claim(s) is/are 1-19, 21-44 and 46-48.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413);<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date <u>10/25/2006</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

## DETAILED ACTION

### *Allowable Subject Matter*

1. An "Amendment" was received on October 17, 2006, in response to Office Action of the previous examiner on June 23, 2006. Claims 1, 38, and 46 have been amended, claims 20 and 45 have been canceled, and a new claim 48 has been added, as indicated.
2. Claims 1-19, 21-44, and 46-48 are allowed.
3. The following is an examiner's statement of reasons for allowance:
4. With respect to amended independent claim 1, prior art fails to disclose a photon emitting device, comprising: a plurality of solid state radiation sources to generate radiation; a plurality of optical concentrators, wherein each concentrator receives radiation from a corresponding one of said solid state radiation sources; a plurality of optical waveguides, wherein each of the plurality of optical waveguides includes a first end and a second end, wherein each first end receives concentrated radiation from a corresponding concentrator, wherein a portion of the plurality of optical waveguides have shaped second ends such that light emitted from the shaped second ends is directed along a light path different from light emitted through non-shaped second ends; and a support structure to stabilize the plurality of optical waveguides between the first and second ends.
5. With respect to amended independent claim 38, prior art also fail to disclose a photon emitting system, comprising: a solid state light source, comprising a plurality of

LED dies to generate optical radiation, a plurality of optical concentrators, wherein each optical concentrator receives illumination from a corresponding one of the LED dies, and a plurality of optical fibers, wherein each of the plurality of optical fibers includes a first end and a second end, wherein each first end receives concentrated illumination from a corresponding optical concentrator; and a controller, coupled to the solid state light source, to selectively activate one or more groups of the plurality of LED dies, wherein the controller sends an increased drive current to a first LED die channel in response to an elevated temperature. And,

6. With respect to amended independent claim 46, prior art further fails to disclose a vehicular headlight illumination system comprising a solid state light source located in a first vehicle compartment to generate a selected illumination pattern, the solid state light source comprising a plurality of solid state light emitters, each of the solid state light emitters being optically coupled to a plurality of corresponding optical fibers, wherein heat generated by the solid state light source is distributed to a location apart from the first compartment.

Claims 2-19, 21-37, 39-45, and 47-48 are allowed by virtue of their dependencies on the independent claims 1, 38, and 46.

### **CONCLUSION**

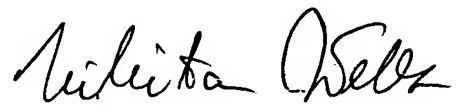
7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments of Statement of Reasons for Allowance".

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact Electronic Business Center (EBC) at 866-217-9197 (toll-free).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zia Hashmi whose telephone number is (571) 272-2473. The examiner can normally be reached between 8.30 AM- 5 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477.

Zia Hashmi  
January 10, 2007.

  
NIKITA WELLS  
PRIMARY EXAMINER  
01/12/07